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## PATENT ABSTRACTS OF JAPAN

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FOR ELECTRONIC AND DEVICE FOR SHORT EQUIPMENT CIRCUIT PROTECTION CIRCUIT PROTECTION (54) METHOD OF SHORT

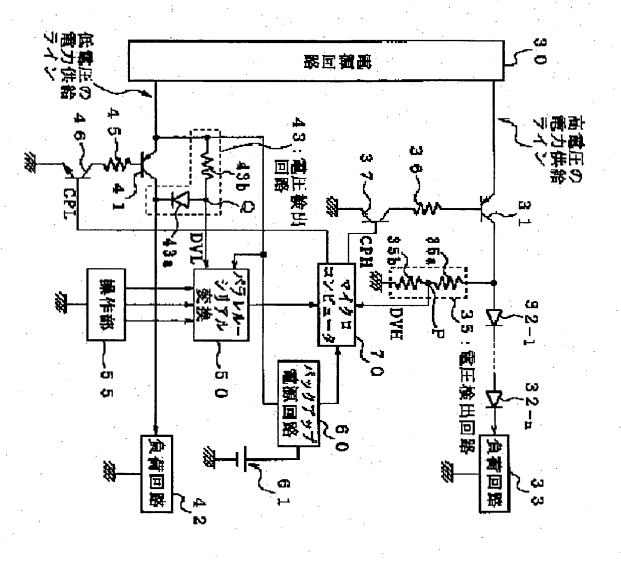
(57) Abstract:

circuit in each of plural power supply detecting a short circuit in a load stop supply of electric power with a low-cost configuration by positively PROBLEM TO BE SOLVED: To

lines.

circuit occurs performed correctly, even if a short that protective operation can be and is supplied to the microcomputer parallel-serial conversion circuit 50 converted into a serial signal by a as a bit signal of parallel signals, is electric power, if the voltage level controlled by a microcomputer 70, supply lines. The transistor 31 is detecting circuits 35, 43 for detecting supply of electric power and circuit protection is provided with SOLUTION: A device for short back-up power supply circuit 60 so microcomputer 70 is powered by a based on the serial signal to control 70. The transistor 41 is controlled, detection circuit 43, which is treated drops. The detected signal from the circuit 35 to stop the supply of short circuit for each of plural power transistors 31, 41 for controlling the the supply of electric power. The based on a signal from the detecting the drop in voltage level caused by a

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